## ATTORNEY DOCKET NO. 01231.0023U2 Application No. 10/563,728

## Amendments to the Claims

The listing of claims set forth below will replace all prior versions and listings of claims in the application.

- 1. (Original) A method of inducing lysis of proliferating cancer cells comprising contacting said cells with a vaccinia virus having an inactivating mutation in an interferon resistance gene.
- 2. (Original) The method of claim 1, wherein the cancer cells are ras-transformed cells.
- 3. (Original) The method of claim 1, wherein the cancer cells are breast cancer cells or prostate cancer cells.
- 4. (Original) The method of claim 1, wherein the inactivating mutation is in a gene selected from the group consisting of E3L, K3L, or a combination thereof.
- 5. (Original) The method of claim 4, wherein the inactivating mutation is selected from the group consisting of a deletion mutation, a substitution mutation, and a missense mutation.
- 6. (Original) The method of claim 4, wherein the inactivating mutation is in the E3L gene.
- 7. (Original) The method of claim 6, wherein the mutation is a deletion of the whole E3L gene.
- 8. (Original) The method of claim 1, wherein the mutant vaccinia virus has a reduced ability to inhibit PKR and increased sensitivity to interferon.
- 9. (Original) The method of claim 1, wherein said contacting comprises administering a therapeutic amount of the vaccinia virus to a mammal comprising proliferating cancer cells under conditions that permit contact between the vaccinia virus and the proliferating cancer cells.

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10. (Original) The method of claim 9, wherein the administering is selected from the group consisting of intratumoral injection, intravenous injection, and intravascular injection.

Claims 11-16 (Canceled)

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